AUTHOR INDEX

ABDUL-WAHID O.A. *see* MOUSTAFA A.F. & ABDUL-WAHID O.A. *Setosporella*, a new genus of Hyphomycetes from Egyptian soils 227

ALI N.A. & JACKSON R.M. Stimulation of germination of spores of some ectomycorrhizal fungi by other micro-organisms 182

ALLEN M. *see* SMITH J.F., CLAYDON N., LOVE M.E., ALLEN M. & WOOD D.A. Effect of substrate depth on extracellular endocellulase and laccase production of *Agaricus bisporus* 292

ANDERSON J.B. *see* SMITH M.L. & ANDERSON J.B. Restriction fragment length polymorphisms in mitochondrial DNAs of *Armillaria*: identification of North American biological species 247

ANDERSON R.D., MIDDLETON R.M. & GUEST D.I. Development of a bioassay to test the effect of phosphorous acid on black pod of cocoa 110

ANIKSTER Y. Host specificity *versus* plurivority in barley leaf rusts and their microcyclic relatives 175

BAHU R. *see* HAJJAR J.D., BENNETT J.W., BHATNAGAR D. & BAHU R. Sterigmatocystin production by laboratory strains of *Aspergillus nidulans* 548

BARTNICKI-GARCIA S. *see* BEAKES G.W. & BARTNICKI-GARCIA S. Ultrastructure of mature oogonium-oospore wall complexes in *Phytophthora megasperma*: a comparison of *in vivo* and *in vitro* dissolution of the spore wall 321

BEAKES G.W. & BARTNICKI-GARCIA S. Ultrastructure of mature oogonium-oospore wall complexes in *Phytophthora megasperma*: a comparison of *in vivo* and *in vitro* dissolution of the spore wall 321

BEALE R.E. & PITT D. Variation in morphology and pathogenicity of *Fusarium oxysporum* f. sp. *narcissi* 369

BENNETT J.W. *see* HAJJAR J.D., BENNETT J.W., BHATNAGAR D. & BAHU R. Sterigmatocystin production by laboratory strains of *Aspergillus nidulans* 548

BERGGREN G.T. *see* YANG X.B., SNOW J.P. & BERGGREN G.T. Morphogenesis of microsclerotia and sasakii-type sclerotia in *Rhizoctonia solani*, anastomosis group 1, intraspecific group 1A and 1B 429

BHATNAGAR D. *see* HAJJAR J.D., BENNETT J.W., BHATNAGAR D. & BAHU R. Sterigmatocystin production by laboratory strains of *Aspergillus nidulans* 548

BODDY L., WIMPENNY J.W.T. & HARVEY R.D. Use of gradient plates to study spore germination with several microclimatic factors varying simultaneously 106

BOUGHER N.L. & HILTON R.N. Three *Cortinarius* species from Western Australia 424

BOWEN R.M. & HARPER S.H.T. Fungal populations on wheat straw decomposing in arabie soils 47

BRESINSKY A. *see* WITTMANN-MEIXNER B. & BRESINSKY A. Quantitative differences of nuclear DNA contents in Paxillaceae compared with other families of Boletales 282

BROWN A.E. *see* KEAY S.M. & BROWN A.E. Interactions between *Psilocybe semilanceata* and fungi of its habitat 554

BROWN J.F. *see* SHIVAS R.G. & BROWN J.F. Yeasts associated with fluid in pitchers of *Nepenthes* 96

BRUNT I.C. & MOORE D. Intracellular glycogen stimulates fruiting in *Coprinus cinereus* 543

BURGESS L.W. *see* SUMMERELL B.A. & BURGESS L.W. Factors influencing survival of *Pyrenophora tritici-repentis*: stubble management 38

BURGESS L.W. *see* SUMMERELL B.A. & BURGESS L.W. Factors influencing survival of *Pyrenophora tritici-repentis*: water potential and temperature 41

CALLAGHAN A.A. *see* WATERS S.D. & CALLAGHAN A.A. *Conidiobolus iuxtagenitus*, a new species with discharged elongate repetitional conidia and conjugation tubes 223

CHEN J.L. *see* TZEAN S.S. & CHEN J.L. A new species of *Trinacrium* from Taiwan 391

CLARK C.L., MILLER J.D. & WHITNEY N.J. Toxicity of conifer needle endophytes to spruce budworm 508

CLAYDON N. *see* SMITH J.F., CLAYDON N., LOVE M.E., ALLEN M. & WOOD D.A. Effect of substrate depth on extracellular endocellulase and laccase production of *Agaricus bisporus* 292

CONN K.L. & TEWARI J.P. Interactions of *Alternaria brassicae* conidia with leaf epicuticular wax of canola 240

CORRELL J.C., KLITTICH C.J.R. & LESLIE J.F. Heterokaryon self-incompatibility in *Gibberella fujikuroi* (*Fusarium moniliforme*) 21

CROSS M.L. & WILLOUGHBY L.G. Enhanced vulnerability of rainbow trout (*Salmo gairdneri*) to *Saprolegnia* infection, following treatment of the fish with an androgen 379

CROUS P.W., WINGFIELD M.J., MARASAS W.F.O. & SUTTON B.C. *Pseudocercospora eucalyptorum* sp. nov., on *Eucalyptus* leaves 394

CUNNINGHAM J.E. & KUIACK C. Esterase activity as a marker for sporulation in *Colletotrichum gloeosporioides* f. sp. *malvae* in submerged culture 236

DAVEY R.A. *see* WEBSTER J., DAVEY R.A. & TURNER J.C.R. Vapour as the source of water in Buller's drop 297

DE MILLIANO W.A.J. *see* FREDERICKSON D.A., MANTLE P.G. & DE MILLIANO W.A.J. Secondary conidiation of *Sphacelia sorghi* on sorghum, a novel factor in the epidemiology of ergot disease 497

DESCALS E. *see* ROLDAN A., DESCALS E. & HONRUBIA M. Pure culture studies on *Tetracladium* 452

DEWAN M.M. & SIVASITHAMPARAM K. Growth promotion of rotation crop species by a sterile fungus from wheat and effect of soil temperature and water potential on its suppression of take-all 156

DEWAN M.M. & SIVASITHAMPARAM K. Behaviour of a plant growth-promoting sterile fungus on agar and roots of rye-grass and wheat 161

DICK M.W. *see* HARDMAN J.M., PIKE D.J. & DICK M.W. Short-term retrievability of *Pythium* propagules in simulated soil environments 199

DICK M.W. *see* HARDMAN J.M. & DICK M.W. Comparative resilience to dilution plate procedures shown by zoospore cysts of twenty *Pythium* species and five *Phytophthora* species 383

DICK M.W. *see* MIDDLETON J. & DICK M.W. Retrievability of *Phytophthora cinnamomi* in sand plates 385

DYKO B.J. *see* SUTTON B.C. & DYKO B.J. Revision of *Hendersonula* 466

FREDERICKSON D.A., MANTLE P.G. & DE MILLIANO W.A.J. Secondary conidiation of *Sphacelia sorghi* on sorghum, a novel factor in the epidemiology of ergot disease 497

GESSNER R.V. *see* MOHAMED M., KEUDELL K.C. & GESSNER R.V. Use of ELISA to differentiate marine species of *Dendryphiella* 400

GILLIGAN C.A. *see* VANNIASINGHAM V.M. & GILLIGAN C.A.
Effects of host, pathogen and environmental factors on latent period and production of pycnidia of *Leptosphaeria maculans* on oilseed rape leaves in controlled environments 167

GINMAN A. & YOUNG T.W.K. Azygospore morphology in *Mucor azygospora* and *M. bainieri* 314

GRGURINOVIC C.A. *see* SIMPSON J.A. & GRGURINOVIC C.A.
An Australian species of *Chaetocalathus* 389

GROSE M.J. Nitrogen form and growth of *Gaeumannomyces graminis* var. *tritici* in soil 112

GUEST D.I. *see* ANDERSON R.D., MIDDLETON R.M. & GUEST D.I.
Development of a bioassay to test the effect of phosphorous acid on black pod of cocoa 110

HAJJAR J.D., BENNETT J.W., BHATNAGAR D. & BAHU R.
Sterigmatocystin production by laboratory strains of *Aspergillus nidulans* 548

HALWAGY M.H. Seasonal airspora at three sites in Kuwait 1977–1982 208

HAMILTON J.T.G. *see* ROBINSON P.M., McKEE N.D., THOMPSON L.A.A., HARPER D.B. & HAMILTON J.T.G.
Autoinhibition of germination and growth in *Geotrichum candidum* 214

HARDMAN J.M., PIKE D.J. & DICK M.W. Short-term retrievability of *Pythium* propagules in simulated soil environments 199

HARDMAN J.M. & DICK M.W. Comparative resilience to dilution plate procedures shown by zoospore cysts of twenty *Pythium* species and five *Phytophthora* species 383

HARPER D.B. *see* ROBINSON P.M., McKEE N.D., THOMPSON L.A.A., HARPER D.B. & HAMILTON J.T.G.
Autoinhibition of germination and growth in *Geotrichum candidum* 214

HARPER S.H.T. *see* BOWEN R.M. & HARPER S.H.T.
Fungal populations on wheat straw decomposing in arable soils 47

HARVEY R.D. *see* BODDY L., WIMPENNY J.W.T. & HARVEY R.D.
Use of gradient plates to study spore germination with several microclimatic factors varying simultaneously 106

HILTON R.N. *see* BOUGHER N.L. & HILTON R.N.
Three *Cortinarius* species from Western Australia 424

HONRUBIA M. *see* ROLDAN A., DESCALS E. & HONRUBIA M.
Pure culture studies on *Tetracladium* 452

HOOD M.A. & ROBINSON P.M. Formation of aerial hyphae in *Saprolegnia ferax* 101

HORN B. Requirement for potassium and pH shift in host-mediated sporangiospore extrusion from trichospores of *Smittium culisetae* and other *Smittium* species 303

HSIEH W.H. *see* SIVANESAN A. & HSIEH W.H. *Kentingia* and *Setocampanula*, two new ascomycete genera 83

HSIEH W.H. *see* SIVANESAN A. & HSIEH W.H.
New species and new records of ascomycetes from Taiwan 340

HYDE K.D. Intertidal fungi from the mangrove fern, *Acrostichum speciosum*, including *Massarina acrostichi* sp. nov. 435

INGOLD C.T. *Conidiobolus osmodes* isolated from *Auricularia auricula-judae* 335

INGOLD C.T. Note on the basidium in the Tilletiaceae 387

INGOLD C.T. Basidium development in some species of *Ustilago* 405

INGRAM D.S. *see* NICHOLSON P., SKIDMORE D.I. & INGRAM D.S.
Resistance of narcissus to infection by *Fusarium oxysporum* f. sp. *narcissi* 363

JACKSON N. *see* LANDSCHOOT P.J. & JACKSON N. *Gaeumannomyces incrustans* sp. nov., a root-infecting hyphopodiate fungus from the United States 55

JACKSON N. *see* LANDSCHOOT P.J. & JACKSON N. *Magnaporthe poae* sp. nov., a hyphopodiate fungus with a *Phialophora* anamorph from grass roots in the United States 59

JACKSON R.M. *see* ALI N.A. & JACKSON R.M.
Stimulation of germination of spores of some ectomycorrhizal fungi by other micro-organisms 182

JAMIL F.F. & NICHOLSON R.L. Cultural studies on *Colletotrichum graminicola* isolates from shattercane, sorghum and corn 63

KALYANASUNDARAM I. & MUBARAK ALI N. Taxonomic note on the myxomycete genus *Diachea* 233

KAMAL *see* VERMA R.K. & KAMAL A new species and new combination in *Mycovellosiella* from Uttar Pradesh, India 230

KAMAL *see* RAI A.N. & KAMAL A new *Stenella* species from India 398

KEAY S.M. & BROWN A.E. Interactions between *Psilocybe semilanceata* and fungi of its habitat 554

KEMP G.H.J., PRETORIUS Z.A. & LE ROUX J. First report of the teleomorph of *Leptosphaeria nodorum* on wheat in South Africa 114

KEUDELL K.C. *see* MOHAMED M., KEUDELL K.C. & GESSNER R.V.
Use of ELISA to differentiate marine species of *Dendryphiella* 400

KILLHAM K. *see* PARKINSON S.M., WAINWRIGHT M. & KILLHAM K.
Observations on oligotrophic growth of fungi on silica gel 529

KLITTICH C.J.R. *see* CORRELL J.C., KLITTICH C.J.R. & LESLIE J.F.
Heterokaryon self-incompatibility in *Gibberella fujikuroi* (*Fusarium moniliforme*) 21

KUIACK C. *see* CUNNINGHAM J.E. & KUIACK C.
Esterase activity as a marker for sporulation in *Colletotrichum gloeosporioides* f. sp. *malvae* in submerged culture 236

LAESSOE T., ROGERS J.D. & WHALLEY A.J.S. *Camillea*, *Jongiella* and light-spored species of *Hypoxylon* 121

LANDSCHOOT P.J. & JACKSON N. *Gaeumannomyces incrustans* sp. nov., a root-infecting hyphopodiate fungus from the United States 55

LANDSCHOOT P.J. & JACKSON N. *Magnaporthe poae* sp. nov., a hyphopodiate fungus with a *Phialophora* anamorph from grass roots in the United States 59

LE ROUX J. *see* KEMP G.H.J., PRETORIUS Z.A. & LE ROUX J.
First report of the teleomorph of *Leptosphaeria nodorum* on wheat in South Africa 114

LEELAVATHY K.M. *see* MANIMOHAN P. & LEELAVATHY K.M.
Two new varieties of *Mycena alphitophora* 118

LESLIE J.F. *see* CORRELL J.C., KLITTICH C.J.R. & LESLIE J.F.
Heterokaryon self-incompatibility in *Gibberella fujikuroi* (*Fusarium moniliforme*) 21

LOVE M.E. *see* SMITH J.F., CLAYDON N., LOVE M.E., ALLEN M. & WOOD D.A.
Effect of substrate depth on extracellular endocellulase and laccase production of *Agaricus bisporus* 292

LUDLOW I.K. *see* ULANOWSKI Z. & LUDLOW I.K.
Water distribution, size and wall thickness in *Lycoperdon pyriforme* spores 28

McGEE P.A. Vesicular-arbuscular mycorrhizal and saprophytic fungi of the Swain Reefs, Australia 375

McKEE N.D. *see* ROBINSON P.M., McKEE N.D., THOMPSON L.A.A., HARPER D.B. & HAMILTON J.T.G.
Autoinhibition of germination and growth in *Geotrichum candidum* 214

MANIMOHAN P. & LEELAVATHY K.M. Two new varieties of *Mycena alphitophora* 118

MANTLE P.G. *see* FREDERICKSON D.A., MANTLE P.G. & DE MILLIANO W.A.J.
Secondary conidiation of *Sphacelia sorghi* on sorghum, a novel factor in the epidemiology of ergot disease 497

MARASAS W.F.O. *see* CROUS P.W., WINGFIELD M.J., MARASAS W.F.O. & SUTTON B.C. *Pseudocercospora eucalyptorum* sp. nov., on *Eucalyptus* leaves 394

MEHROTRA M.D. & SIVANESAN A. *Asteromassaria tetraspora* sp. nov., a new ascomycete from India 557

MIDDLETON J. & DICK M.W. Retrievability of *Phytophthora cinnamomi* in sand plates 385

MIDDLETON R.M. *see* ANDERSON R.D., MIDDLETON R.M. & GUEST D.I.
Development of a bioassay to test the effect of phosphorous acid on black pod of cocoa 110

MILLER J.D. *see* CLARK C.L., MILLER J.D. & WHITNEY N.J.
Toxicity of conifer needle endophytes to spruce budworm 508

MOHAMED M., KEUDELL K.C. & GESSNER R.V. Use of ELISA to differentiate marine species of *Dendryphiella* 400

MOORE D. *see* BRUNT I.C. & MOORE D.
Intracellular glycogen stimulates fruiting in *Coprinus cinereus* 543

MORRIN M. & WARD O.P. Investigation of cell wall composition of different mycelial forms of *Rhizopus arrhizus* 524

MOSER J.C., PERRY T.J. & SOLHEIM H. Ascospores hyperphoretic on mites associated with *Ips typographus* 513

MOUSTAFA A.F. & ABDUL-WAHID O.A. *Setosporella*, a new genus of Hyphomycetes from Egyptian soils 227

MUBARAK ALI N. *see* KALYANASUNDARAM I. & MUBARAK ALI N. Taxonomic note on the myxomycete genus *Diachea* 233

NATVIG D.O. *see* TAYLOR J.W. & NATVIG D.O. Mitochondrial DNA and evolution of heterothallic and pseudohomothallic *Neurospora* species 257

NICHOLSON P., SKIDMORE D.I. & INGRAM D.S. Resistance of narcissus to infection by *Fusarium oxysporum* f. sp. *narcissi* 363

NICHOLSON R.L. *see* JAMIL F.F. & NICHOLSON R.L. Cultural studies on *Colletotrichum graminicola* isolates from shattercane, sorghum and corn 63

NOUT M.J.R. Effect of *Rhizopus* and *Neurospora* spp. on growth of *Aspergillus flavus* and *A. parasiticus* and accumulation of aflatoxin B_1 in groundnut 518

OSORIO M. & STEPHAN B.R. Ascospore germination and appressorium formation *in vitro* of some species of the Rhytismataceae 439

PARKIN M.J. *see* ROSS I.S. & PARKIN M.J. Uptake of copper by *Candida utilis* 33

PARKINSON S.M., WAINWRIGHT M. & KILLHAM K. Observations on oligotrophic growth of fungi on silica gel 529

PEBERDY J.F. Presidential Address: Fungi without coats – protoplasts as tools for mycological research 1

PEGLER D.N. & YOUNG T.W.K. The genus *Anthracophyllum* (Tricholomataceae tribe Collybieae) 352

PEI M.H. Inoculation of callus tissues of Scots pine, Corsican pine and three varieties of mountain pine with *Peridermium pini* 503

PERRY T.J. *see* MOSER J.C., PERRY T.J. & SOLHEIM H. Ascospores hyperphoretic on mites associated with *Ips typographus* 513

PIKE D.J. *see* HARDMAN J.M., PIKE D.J. & DICK M.W. Short-term retrievability of *Pythium* propagules in simulated soil environments 199

PITT D. *see* BEALE R.E. & PITT D. Variation in morphology and pathogenicity of *Fusarium oxysporum* f. sp. *narcissi* 369

PLOETZ R.C. & SHEPARD E.S. Fusarial wilt of banana in Florida 242

PRETORIUS Z.A. *see* KEMP G.H.J., PRETORIUS Z.A. & LE ROUX J. First report of the teleomorph of *Leptosphaeria nodorum* on wheat in South Africa 114

PRICE T.V. *see* WILLIAMS B.L. & PRICE T.V. Infection of *Paspalum* by *Ascochyta paspali* transmitted in cow's saliva 559

RAI A.N. & KAMAL A new *Stenella* species from India 398

RAUDASKOSKI M. *see* YLI-MATTILA T., RUITERS M.H.J., WESSELS J.G.H. & RAUDASKOSKI M. Effect of inbreeding and light on monokaryotic and dikaryotic fruiting in the homobasidiomycete *Schizophyllum commune* 535

RAYNER A.D.M. *see* SHARLAND P.R. & RAYNER A.D.M. Mycelial interactions in outcrossing populations of *Hypoxylon* 187

RAYNER A.D.M. *see* SHARLAND P.R. & RAYNER A.D.M. Mycelial ontogeny and interactions in non-outcrossing populations of *Hypoxylon* 273

REID D.A. Notes on some Leucocoprinoid fungi from Britain 413

ROBINSON P.M. *see* HOOD M.A. & ROBINSON P.M. Formation of aerial hyphae in *Saprolegnia ferax* 101

ROBINSON P.M., McKEE N.D., THOMPSON L.A.A., HARPER D.B. & HAMILTON J.T.G. Autoinhibition of germination and growth in *Geotrichum candidum* 214

ROGERS J.D. *see* LAESSOE T., ROGERS J.D. & WHALLEY A.J.S. *Camillea*, *Jongiella* and light-spored species of *Hypoxylon* 121

ROLDAN A., DESCALS E. & HONRUBIA M. Pure culture studies on *Tetracladium* 452

ROSS I.S. & PARKIN M.J. Uptake of copper by *Candida utilis* 33

RUITERS M.H.J. *see* YLI-MATTILA T., RUITERS M.H.J., WESSELS J.G.H. & RAUDASKOSKI M. Effect of inbreeding and light on monokaryotic and dikaryotic fruiting in the homobasidiomycete *Schizophyllum commune* 535

SCHEUER C. Two small ascomycetes on *Carex* new to Britain 115

SCHWALB M.N. *see* VNENCHAK P. & SCHWALB M.N. Phenol oxidase activity during development of *Coprinus cinereus* 546

SHARLAND P.R. & RAYNER A.D.M. Mycelial interactions in outcrossing populations of *Hypoxylon* 187

SHARLAND P.R. & RAYNER A.D.M. Mycelial ontogeny and interactions in non-outcrossing populations of *Hypoxylon* 273

SHEPARD E.S. *see* PLOETZ R.C. & SHEPARD E.S. Fusarial wilt of banana in Florida 242

SHIVAS R.G. & BROWN J.F. Yeasts associated with fluid in pitchers of *Nepenthes* 96

SIMMONS R.B. Comparison of chitin localization in *Saccharomyces cerevisiae*, *Cryptococcus neoformans*, and *Malassezia* spp. 551

SIMPSON J.A. & GRGURINOVIC C.A. An Australian species of *Chaetocalathus* 389

SIVANESAN A. & HSIEH W.H. *Kentingia* and *Setocampanula*, two new ascomycete genera 83

SIVANESAN A. & HSIEH W.H. New species and new records of ascomycetes from Taiwan 340

SIVANESAN A. *see* MEHROTRA M.D. & SIVANESAN A. *Asteromassaria tetraspora* sp. nov., a new ascomycete from India 557

SIVASITHAMPARAM K. *see* DEWAN M.M. & SIVASITHAMPARAM K. Growth promotion of rotation crop species by a sterile fungus from wheat and effect of soil temperature and water potential on its suppression of take-all 156

SIVASITHAMPARAM K. *see* DEWAN M.M. & SIVASITHAMPARAM K. Behaviour of a plant growth-promoting sterile fungus on agar and roots of rye-grass and wheat 161

SKIDMORE D.I. *see* NICHOLSON P., SKIDMORE D.I. & INGRAM D.S. Resistance of narcissus to infection by *Fusarium oxysporum* f. sp. *narcissi* 363

SMITH J.F., CLAYDON N., LOVE M.E., ALLEN M. & WOOD D.A. Effect of substrate depth on extracellular endocellulase and laccase production of *Agaricus bisporus* 292

SMITH M.L. & ANDERSON J.B. Restriction fragment length polymorphisms in mitochondrial DNAs of *Armillaria*: identification of North American biological species 247

SNOW J.P. *see* YANG X.B., SNOW J.P. & BERGGREN G.T. Morphogenesis of microsclerotia and sasakii-type sclerotia in *Rhizoctonia solani*, anastomosis group 1, intraspecific group 1A and 1B 429

SOLHEIM H. *see* MOSER J.C., PERRY T.J. & SOLHEIM H. Ascospores hyperphoretic on mites associated with *Ips typographus* 513

STEPHAN B.R. *see* OSORIO M. & STEPHAN B.R. Ascospore germination and appressorium formation *in vitro* of some species of the Rhytismataceae 439

SUMMERELL B.A. & BURGESS L.W. Factors influencing survival of *Pyrenophora tritici-repentis*: stubble management 38

SUMMERELL B.A. & BURGESS L.W. Factors influencing survival of *Pyrenophora tritici-repentis*: water potential and temperature 41

SUTTON B.C. *see* CROUS P.W., WINGFIELD M.J., MARASAS W.F.O. & SUTTON B.C. *Pseudocercospora eucalyptorum* sp. nov., on *Eucalyptus* leaves 394

SUTTON B.C. & DYKO B.J. Revision of *Hendersonula* 466

TAYLOR J.W. & NATVIG D.O. Mitochondrial DNA and evolution of heterothallic and pseudohomothallic *Neurospora* species 257

TEWARI J.P. *see* CONN K.L. & TEWARI J.P. Interactions of *Alternaria brassicae* conidia with leaf epicuticular wax of canola 240

THOMPSON L.A.A. *see* ROBINSON P.M., McKEE N.D., THOMPSON L.A.A., HARPER D.B. & HAMILTON J.T.G. Autoinhibition of germination and growth in *Geotrichum candidum* 214

TURNER J.C.R. *see* WEBSTER J., DAVEY R.A. & TURNER J.C.R. Vapour as the source of water in Buller's drop 297

TZEAN S.S. & CHEN J.L. A new species of *Trinacrium* from Taiwan 391

ULANOWSKI Z. & LUDLOW I.K. Water distribution, size and wall thickness in *Lycoperdon pyriforme* spores 28

VAKILI N.G. *Gonatobotrys simplex* and its teleomorph, *Melanospora damnosa* 67

VAN WYK P.S. *see* WINGFIELD M.J., VAN WYK P.S. & VAN WYK P.W.J. Conidial development in the anamorph of *Ophiostoma cucullatum* 91

VAN WYK P.W.J. *see* WINGFIELD M.J., VAN WYK P.S. & VAN WYK P.W.J. Conidial development in the anamorph of *Ophiostoma cucullatum* 91

VANNIASINGHAM V.M. & GILLIGAN C.A. Effects of host, pathogen and environmental factors on latent period and production of pycnidia of *Leptosphaeria maculans* on oilseed rape leaves in controlled environments 167

VERMA R.K. & KAMAL A new species and new combination in *Mycovellosiella* from Uttar Pradesh, India 230

VNENCHAK P. & SCHWALB M.N. Phenol oxidase activity during development of *Coprinus cinereus* 546

WAINWRIGHT M. *see* PARKINSON S.M., WAINWRIGHT M. & KILLHAM K. Observations on oligotrophic growth of fungi on silica gel 529

WARD O.P. *see* MORRIN M. & WARD O.P. Investigation of cell wall composition of different mycelial forms of *Rhizopus arrhizus* 524

WATERS S.D. & CALLAGHAN A.A. *Conidiobolus iuxtagenitus*, a new species with discharged elongate repetitional conidia and conjugation tubes 223

WEBSTER J., DAVEY R.A. & TURNER J.C.R. Vapour as the source of water in Buller's drop 297

WESSELS J.G.H. *see* YLI-MATTILA T., RUITERS M.H.J., WESSELS J.G.H. & RAUDASKOSKI M. Effect of inbreeding and light on monokaryotic and dikaryotic fruiting in the homobasidiomycete *Schizophyllum commune* 535

WHALLEY A.J.S. *see* LAESSOE T., ROGERS J.D. & WHALLEY A.J.S. *Camillea*, *Jongiella* and light-spored species of *Hypoxylon* 121

WHITNEY N.J. *see* CLARK C.L., MILLER J.D. & WHITNEY N.J. Toxicity of conifer needle endophytes to spruce budworm 508

WILLIAMS B.L. & PRICE T.V. Infection of *Paspalum* by *Ascochyta paspali* transmitted in cow's saliva 559

WILLOUGHBY L.G. *see* CROSS M.L. & WILLOUGHBY L.G. Enhanced vulnerability of rainbow trout (*Salmo gairdneri*) to *Saprolegnia* infection, following treatment of the fish with an androgen 379

WIMPENNY J.W.T. *see* BODDY L., WIMPENNY J.W.T. & HARVEY R.D. Use of gradient plates to study spore germination with several microclimatic factors varying simultaneously 106

WINGFIELD M.J., VAN WYK P.S. & VAN WYK P.W.J. Conidial development in the anamorph of *Ophiostoma cucullatum* 91

WINGFIELD M.J. *see* CROUS P.W., WINGFIELD M.J., MARASAS W.F.O. & SUTTON B.C. *Pseudocercospora eucalyptorum* sp. nov., on *Eucalyptus* leaves 394

WITTMANN-MEIXNER B. & BRESINSKY A. Quantitative differences of nuclear DNA contents in Paxillaceae compared with other families of Boletales 282

WOOD D.A. *see* SMITH J.F., CLAYDON N., LOVE M.E., ALLEN M. & WOOD D.A. Effect of substrate depth on extracellular endocellulase and laccase production of *Agaricus bisporus* 292

YANG X.B., SNOW J.P. & BERGGREN G.T. Morphogenesis of microsclerotia and sasakii-type sclerotia in *Rhizoctonia solani*, anastomosis group 1, intraspecific group 1A and 1B 429

YIP H.-Y. Four species of *Anthostomella* from Australia 75

YIP H.-Y. Five new species of *Phyllosticta* on Australian native plants 489

YLI-MATTILA T., RUITERS M.H.J., WESSELS J.G.H. & RAUDASKOSKI M. Effect of inbreeding and light on monokaryotic and dikaryotic fruiting in the homobasidiomycete *Schizophyllum commune* 535

YOUNG T.W.K. *see* GINMAN A. & YOUNG T.W.K. Azygospore morphology in *Mucor azygospora* and *M. bainieri* 314

YOUNG T.W.K. *see* PEGLER D.N. & YOUNG T.W.K. The genus *Anthracophyllum* (Tricholomataceae tribe Collybieae) 352

SUBJECT INDEX

Acrostichum
Intertidal fungi from the mangrove fern, *Acrostichum speciosum*, including *Massarina acrostichi* sp. nov. **93(4)**, 435, 1989

Aeciospores
Inoculation of callus tissues of Scots pine, Corsican pine and three varieties of mountain pine with *Peridermium pini* **93(4)**, 503, 1989

Aedes
Requirement for potassium and pH shift in host-mediated sporangiospore extrusion from trichospores of *Smittium culisetae* and other *Smittium* species **93(3)**, 303, 1989

Aerial hyphae
Formation of aerial hyphae in *Saprolegnia ferax* **93(1)**, 101, 1989

Aflatoxins
Effect of *Rhizopus* and *Neurospora* spp. on growth of *Aspergillus flavus* and *A. parasiticus* and accumulation of aflatoxin B_1 in groundnut **93(4)**, 518, 1989

Agaricus bisporus
Effect of substrate depth on extracellular endocellulase and laccase production of *Agaricus bisporus* **93(3)**, 292, 1989

Agaricus rawakensis
The genus *Anthracophyllum* (Tricholomataceae tribe Collybieae) **93(3)**, 352, 1989

Agonis
Three *Cortinarius* species from Western Australia **93(4)**, 424, 1989

Air-spora
Seasonal airspora at three sites in Kuwait 1977–1982 **93(2)**, 208, 1989

Alternaria brassicae
Interactions of *Alternaria brassicae* conidia with leaf epicuticular wax of canola **93(2)**, 240, 1989

Alyxia
Five new species of *Phyllosticta* on Australian native plants **93(4)**, 489, 1989

Amaryllidaceae
Host specificity *versus* plurivority in barley leaf rusts and their microcyclic relatives **93(2)**, 175, 1989

Anthostomella bispapillata
Four species of *Anthostomella* from Australia **93(1)**, 75, 1989

Anthostomella eucalypti
Four species of *Anthostomella* from Australia **93(1)**, 75, 1989

Anthostomella hemibrunnea
Four species of *Anthostomella* from Australia **93(1)**, 75, 1989

Anthostomella pseudoclypeata
Four species of *Anthostomella* from Australia **93(1)**, 75, 1989

Anthracophyllum
The genus *Anthracophyllum* (Tricholomataceae tribe Collybieae) **93(3)**, 352, 1989

Anthracophyllum melanophyllum
The genus *Anthracophyllum* (Tricholomataceae tribe Collybieae) **93(3)**, 352, 1989

Appressorium formation
Ascospore germination and appressorium formation *in vitro* of some species of the Rhytismataceae **93(4)**, 439, 1989

Aquatic fungi
Pure culture studies on *Tetracladium* **93(4)**, 452, 1989

Armillaria
Restriction fragment length polymorphisms in mitochondrial DNAs of *Armillaria*: identification of North American biological species **93(3)**, 247, 1989

Ascochyta paspali
Infection of *Paspalum* by *Ascochyta paspali* transmitted in cow's saliva **93(4)**, 559, 1989

Ascospore dispersal
Ascospores hyperphoretic on mites associated with *Ips typographus* **93(4)**, 513, 1989

Ascospore germination
Ascospore germination and appressorium formation *in vitro* of some species of the Rhytismataceae **93(4)**, 439, 1989

Aspergillus flavus
Effect of *Rhizopus* and *Neurospora* spp. on growth of *Aspergillus flavus* and *A. parasiticus* and accumulation of aflatoxin B_1 in groundnut **93(4)**, 518, 1989

Aspergillus nidulans
Sterigmatocystin production by laboratory strains of *Aspergillus nidulans* **93(4)**, 548, 1989

Aspergillus parasiticus
Effect of *Rhizopus* and *Neurospora* spp. on growth of *Aspergillus flavus* and *A. parasiticus* and accumulation of aflatoxin B_1 in groundnut **93(4)**, 518, 1989

Asteromassaria tetraspora
Asteromassaria tetraspora sp. nov., a new ascomycete from India **93(4)**, 557, 1989

Auerswaldiella lithocarpicola
New species and new records of ascomycetes from Taiwan **93(3)**, 340, 1989

Auricularia auricula-judae
Conidiobolus osmodes isolated from *Auricularia auricula-judae* **93(3)**, 335, 1989

Autoinhibition
Autoinhibition of germination and growth in *Geotrichum candidum* **93(2)**, 214, 1989

Autotropism
Formation of aerial hyphae in *Saprolegnia ferax* **93(1)**, 101, 1989

Azadirachta
Two new varieties of *Mycena alphitophora* **93(1)**, 118, 1989

Azygospores
Azygospore morphology in *Mucor azygospora* and *M. bainieri* **93(3)**, 314, 1989

Bacteria
Stimulation of germination of spores of some ectomycorrhizal fungi by other micro-organisms **93(2)**, 182, 1989

Ballistospore discharge
Vapour as the source of water in Buller's drop **93(3)**, 297, 1989

Ballistospore formation
Note on the basidium in the Tilletiaceae **93(3)**, 387, 1989

Basal rot
Resistance of narcissus to infection by *Fusarium oxysporum* f. sp. *narcissi* **93(3)**, 363, 1989

Basidiocarp development
Intracellular glycogen stimulates fruiting in *Coprinus cinereus* **93(4)**, 543, 1989

Basidiospore structure
Water distribution, size and wall thickness in *Lycoperdon pyriforme* spores **93(1)**, 28, 1989

Basidium development
Note on the basidium in the Tilletiaceae **93(3)**, 387, 1989
Basidium development in some species of *Ustilago* **93(4)**, 405, 1989

Bioassay
Development of a bioassay to test the effect of phosphorous acid on black pod of cocoa **93(1)**, 110, 1989

Biological control
Gonatobotrys simplex and its teleomorph, *Melanospora damnosa* **93(1)**, 67, 1989
Behaviour of a plant growth-promoting sterile fungus on agar and roots of rye-grass and wheat **93(2)**, 161, 1989
Toxicity of conifer needle endophytes to spruce budworm **93(4)**, 508, 1989

Biological species
Restriction fragment length polymorphisms in mitochondrial DNAs of *Armillaria*: identification of North American biological species **93(3)**, 247, 1989
Biosynthesis
Presidential Address: Fungi without coats – protoplasts as tools for mycological research **93(1)**, 1, 1989
Boerhavia
Vesicular-arbuscular mycorrhizal and saprophytic fungi of the Swain Reefs, Australia **93(3)**, 375, 1989
Boletales
Quantitative differences of nuclear DNA contents in Paxillaceae compared with other families of Boletales **93(3)**, 282, 1989
Brassica
Effects of host, pathogen and environmental factors on latent period and production of pycnidia of *Leptosphaeria maculans* on oilseed rape leaves in controlled environments **93(2)**, 167, 1989
Interactions of *Alternaria brassicae* conidia with leaf epicuticular wax of canola **93(2)**, 240, 1989
Buller's drop
Vapour as the source of water in Buller's drop **93(3)**, 297, 1989
Camarosporium rhamni
Revision of *Hendersonula* **93(4)**, 466, 1989
Camillea
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Camillea amazonica
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Camillea broomeiana
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Camillea cyclisca
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Camillea deceptiva
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Camillea flosculosa
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Camillea fossulata
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Camillea gigaspora
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Camillea hainesii
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Camillea heterostoma
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Camillea heterostoma* var. *macrospora
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Camillea oligoporus
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Camillea patouillardii
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Camillea punctidisca
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Camillea punctulata
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Camillea scriblita
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Camillea signata
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Camillea stellata
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Camillea* subgen. *Jongiella
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Camillea tinctor
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Candida utilis
Uptake of copper by *Candida utilis* **93(1)**, 33, 1989
Carex
Two small ascomycetes on *Carex* new to Britain **93(1)**, 115, 1989
Cellulolytic activity
Fungal populations on wheat straw decomposing in arable soils **93(1)**, 47, 1989
Cell-wall composition
Investigation of cell wall composition of different mycelial forms of *Rhizopus arrhizus* **93(4)**, 524, 1989
Comparison of chitin localization in *Saccharomyces cerevisiae, Cryptococcus neoformans*, and *Malassezia* spp. **93(4)**, 551, 1989
Cell-wall synthesis
Presidential Address: Fungi without coats – protoplasts as tools for mycological research **93(1)**, 1, 1989
Ceratocystis
Conidial development in the anamorph of *Ophiostoma cucullatum* **93(1)**, 91, 1989
Cercospora
Pseudocercospora eucalyptorum sp. nov., on *Eucalyptus* leaves **93(3)**, 394, 1989
Cercospora cordiicola
A new species and new combination in *Mycovellosiella* from Uttar Pradesh, India **93(2)**, 230, 1989
Chaetocalathus cheelii
An Australian species of *Chaetocalathus* **93(3)**, 389, 1989
Choristoneura
Toxicity of conifer needle endophytes to spruce budworm **93(4)**, 508, 1989
Chrysalidocarpus
New species and new records of ascomycetes from Taiwan **93(3)**, 340, 1989
Cochliobolus sativus
Use of gradient plates to study spore germination with several microclimatic factors varying simultaneously **93(1)**, 106, 1989
Cocos
New species and new records of ascomycetes from Taiwan **93(3)**, 340, 1989
Colletotrichum gloeosporioides* f. sp. *malvae
Esterase activity as a marker for sporulation in *Colletotrichum gloeosporioides* f. sp. *malvae* in submerged culture **93(2)**, 236, 1989
Colletotrichum graminicola
Cultural studies on *Colletotrichum graminicola* isolates from shattercane, sorghum and corn **93(1)**, 63, 1989
Colonization
Short-term retrievability of *Pythium* propagules in simulated soil environments **93(2)**, 199, 1989
Conidia
Secondary conidiation of *Sphacelia sorghi* on sorghum, a novel factor in the epidemiology of ergot disease **93(4)**, 497, 1989
Conidial germination
Conidiobolus osmodes isolated from *Auricularia auricula-judae* **93(3)**, 335, 1989
Conidiobolus iuxtagenitus
Conidiobolus iuxtagenitus, a new species with discharged elongate repetitional conidia and conjugation tubes **93(2)**, 223, 1989
Conidiobolus osmodes
Conidiobolus osmodes isolated from *Auricularia auricula-judae* **93(3)**, 335, 1989
Conidiogenesis
Conidial development in the anamorph of *Ophiostoma cucullatum* **93(1)**, 91, 1989
Copper
Uptake of copper by *Candida utilis* **93(1)**, 33, 1989
Coprinus cinereus
Intracellular glycogen stimulates fruiting in *Coprinus cinereus* **93(4)**, 543, 1989
Phenol oxidase activity during development of *Coprinus cinereus* **93(4)**, 546, 1989
Cortinarius lavendulensis
Three *Cortinarius* species from Western Australia **93(4)**, 424, 1989
Cortinarius phalarus
Three *Cortinarius* species from Western Australia **93(4)**, 424, 1989
Cortinarius vinaceolamellatus
Three *Cortinarius* species from Western Australia **93(4)**, 424, 1989
Cryptococcus albidus
Yeasts associated with fluid in pitchers of *Nepenthes* **93(1)**, 96, 1989
Cryptococcus neoformans
Comparison of chitin localization in *Saccharomyces cerevisiae, Cryptococcus neoformans*, and *Malassezia* spp. **93(4)**, 551, 1989
Cytofluorometry
Quantitative differences of nuclear DNA contents in Paxillaceae compared with other families of Boletales **93(3)**, 282, 1989
Dendryphiella arenariae
Use of ELISA to differentiate marine species of *Dendryphiella* **93(3)**, 400, 1989
Dendryphiella salina
Use of ELISA to differentiate marine species of *Dendryphiella* **93(3)**, 400, 1989
Development
Mycelial ontogeny and interactions in non-outcrossing populations of *Hypoxylon* **93(3)**, 273, 1989
Intracellular glycogen stimulates fruiting in *Coprinus cinereus* **93(4)**, 543, 1989
Phenol oxidase activity during development of *Coprinus cinereus* **93(4)**, 546, 1989

Diachea leucopodia
Taxonomic note on the myxomycete genus *Diachea* **93(2)**, 233, 1989
Diatrype punctulata
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Diazonium blue B
Comparison of chitin localization in *Saccharomyces cerevisiae, Cryptococcus neoformans*, and *Malassezia* spp. **93(4)**, 551, 1989
Dichomera conglobata
Revision of *Hendersonula* **93(4)**, 466, 1989
Dichomera neorhamni
Revision of *Hendersonula* **93(4)**, 466, 1989
Dichomera rhamnicola
Revision of *Hendersonula* **93(4)**, 466, 1989
Dilution plates
Comparative resilience to dilution plate procedures shown by zoospore cysts of twenty *Pythium* species and five *Phytophthora* species **93(3)**, 383, 1989
Disease control
Development of a bioassay to test the effect of phosphorous acid on black pod of cocoa **93(1)**, 110, 1989
Distribution
Seasonal airspora at three sites in Kuwait 1977–1982 **93(2)**, 208, 1989
DNA
Restriction fragment length polymorphisms in mitochondrial DNAs of *Armillaria*: identification of North American biological species **93(3)**, 247, 1989
Mitochondrial DNA and evolution of heterothallic and pseudohomothallic *Neurospora* species **93(3)**, 257, 1989
DNA content
Quantitative differences of nuclear DNA contents in Paxillaceae compared with other families of Boletales **93(3)**, 282, 1989
DNA hybridization
Mitochondrial DNA and evolution of heterothallic and pseudohomothallic *Neurospora* species **93(3)**, 257, 1989
Dormancy
Water distribution, size and wall thickness in *Lycoperdon pyriforme* spores **93(1)**, 28, 1989
Dothiorella mangiferae
Revision of *Hendersonula* **93(4)**, 466, 1989
Ecology
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Short-term retrievability of *Pythium* propagules in simulated soil environments **93(2)**, 199, 1989
Retrievability of *Phytophthora cinnamomi* in sand plates **93(3)**, 385, 1989
Ectomycorrhizas
Stimulation of germination of spores of some ectomycorrhizal fungi by other micro-organisms **93(2)**, 182, 1989
Three *Cortinarius* species from Western Australia **93(4)**, 424, 1989
ELISA
Use of ELISA to differentiate marine species of *Dendryphiella* **93(3)**, 400, 1989
Ellisiodothis cocoicola
New species and new records of ascomycetes from Taiwan **93(3)**, 340, 1989
Embelia
A new *Stenella* species from India **93(3)**, 398, 1989
Endocellulase
Effect of substrate depth on extracellular endocellulase and laccase production of *Agaricus bisporus* **93(3)**, 292, 1989
Endophytes
Toxicity of conifer needle endophytes to spruce budworm **93(4)**, 508, 1989
Enzymes
Effect of substrate depth on extracellular endocellulase and laccase production of *Agaricus bisporus* **93(3)**, 292, 1989
Epidemiology
Secondary conidiation of *Sphacelia sorghi* on sorghum, a novel factor in the epidemiology of ergot disease **93(4)**, 497, 1989
Ergot
Secondary conidiation of *Sphacelia sorghi* on sorghum, a novel factor in the epidemiology of ergot disease **93(4)**, 497, 1989
Esterase profiles
Esterase activity as a marker for sporulation in *Colletotrichum gloeosporioides* f. sp. *malvae* in submerged culture **93(2)**, 236, 1989
Eucalyptus
Four species of *Anthostomella* from Australia **93(1)**, 75, 1989
Pseudocercospora eucalyptorum sp. nov., on *Eucalyptus* leaves **93(3)**, 394, 1989
Eutypa gigaspora
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Evolution
Mitochondrial DNA and evolution of heterothallic and pseudohomothallic *Neurospora* species **93(3)**, 257, 1989
Fruiting induction
Effect of inbreeding and light on monokaryotic and dikaryotic fruiting in the homobasidiomycete *Schizophyllum commune* **93(4)**, 535, 1989
Fungal activity
Resistance of narcissus to infection by *Fusarium oxysporum* f. sp. *narcissi* **93(3)**, 363, 1989
Fusarium moniliforme
Heterokaryon self-incompatibility in *Gibberella fujikuroi* (*Fusarium moniliforme*) **93(1)**, 21, 1989
Fusarium oxysporum* f. sp. *cubense
Fusarial wilt of banana in Florida **93(2)**, 242, 1989
Fusarium oxysporum* f. sp. *narcissi
Resistance of narcissus to infection by *Fusarium oxysporum* f. sp. *narcissi* **93(3)**, 363, 1989
Variation in morphology and pathogenicity of *Fusarium oxysporum* f. sp. *narcissi* **93(3)**, 369, 1989
Fusarium subglutinans
Gonatobotrys simplex and its teleomorph, *Melanospora damnosa* **93(1)**, 67, 1989
Gaeumannomyces graminis* var. *tritici
Nitrogen form and growth of *Gaeumannomyces graminis* var. *tritici* in soil **93(1)**, 112, 1989
Growth promotion of rotation crop species by a sterile fungus from wheat and effect of soil temperature and water potential on its suppression of take-all **93(2)**, 156, 1989
Behaviour of a plant growth-promoting sterile fungus on agar and roots of rye-grass and wheat **93(2)**, 161, 1989
Gaeumannomyces incrustans
Gaeumannomyces incrustans sp. nov., a root-infecting hyphopodiate fungus from the United States **93(1)**, 55, 1989
Genetics
Heterokaryon self-incompatibility in *Gibberella fujikuroi* (*Fusarium moniliforme*) **93(1)**, 21, 1989
Geotrichum candidum
Autoinhibition of germination and growth in *Geotrichum candidum* **93(2)**, 214, 1989
Germination
Cultural studies on *Colletotrichum graminicola* isolates from shattercane, sorghum and corn **93(1)**, 63, 1989
Use of gradient plates to study spore germination with several microclimatic factors varying simultaneously **93(1)**, 106, 1989
Gibberella fujikuroi
Heterokaryon self-incompatibility in *Gibberella fujikuroi* (*Fusarium moniliforme*) **93(1)**, 21, 1989
Glucanase
Ultrastructure of mature oogonium-oospore wall complexes in *Phytophthora megasperma*: a comparison of *in vivo* and *in vitro* dissolution of the spore wall **93(3)**, 321, 1989
Glycine
Morphogenesis of microsclerotia and sasakii-type sclerotia in *Rhizoctonia solani*, anastomosis group 1, intraspecific group 1A and 1B **93(4)**, 429, 1989
Glycogen mobilization
Intracellular glycogen stimulates fruiting in *Coprinus cinereus* **93(4)**, 543, 1989
Gonatobotrys simplex
Gonatobotrys simplex and its teleomorph, *Melanospora damnosa* **93(1)**, 67, 1989
Gradient plates
Use of gradient plates to study spore germination with several microclimatic factors varying simultaneously **93(1)**, 106, 1989
Graphium
Conidial development in the anamorph of *Ophiostoma cucullatum* **93(1)**, 91, 1989
Growth
Cultural studies on *Colletotrichum graminicola* isolates from shattercane, sorghum and corn **93(1)**, 63, 1989
Hebeloma crustuliniforme
Stimulation of germination of spores of some ectomycorrhizal fungi by other micro-organisms **93(2)**, 182, 1989
Hendersonia meridionalis
Revision of *Hendersonula* **93(4)**, 466, 1989

Hendersonia rhamnicola
Revision of *Hendersonula* **93(4)**, 466, 1989
Hendersonia symploci
Revision of *Hendersonula* **93(4)**, 466, 1989
Hendersonula
Revision of *Hendersonula* **93(4)**, 466, 1989
Hendersonula macrosperma
Revision of *Hendersonula* **93(4)**, 466, 1989
Hendersonula symploci
Revision of *Hendersonula* **93(4)**, 466, 1989
Heterokaryon compatibility
Heterokaryon self-incompatibility in *Gibberella fujikuroi* (*Fusarium moniliforme*) **93(1)**, 21, 1989
Heterokaryosis
Mycelial interactions in outcrossing populations of *Hypoxylon* **93(2)**, 187, 1989
Hordeum
Host specificity *versus* plurivority in barley leaf rusts and their microcyclic relatives **93(2)**, 175, 1989
Host range
Host specificity *versus* plurivority in barley leaf rusts and their microcyclic relatives **93(2)**, 175, 1989
Hyphopodia
Gaeumannomyces incrustans sp. nov., a root-infecting hyphopodiate fungus from the United States **93(1)**, 55, 1989
Magnaporthe poae sp. nov., a hyphopodiate fungus with a *Phialophora* anamorph from grass roots in the United States **93(1)**, 59, 1989
Hypoxylon
Camillea, *Jongiella* and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Mycelial interactions in outcrossing populations of *Hypoxylon* **93(2)**, 187, 1989
Mycelial ontogeny and interactions in non-outcrossing populations of *Hypoxylon* **93(3)**, 273, 1989
Hypoxylon broomeianum
Camillea, *Jongiella* and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Hypoxylon cycliscum
Camillea, *Jongiella* and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Hypoxylon fossulatum
Camillea, *Jongiella* and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Hypoxylon hainesii
Camillea, *Jongiella* and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Hypoxylon heterostomum* var. *macrospora
Camillea, *Jongiella* and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Hypoxylon punctidiscum
Camillea, *Jongiella* and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Hypoxylon scriblita
Camillea, *Jongiella* and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Infection
Ascospore germination and appressorium formation *in vitro* of some species of the Rhytismataceae **93(4)**, 439, 1989
Infection of *Paspalum* by *Ascochyta paspali* transmitted in cow's saliva **93(4)**, 559, 1989
Inoculum source
Inoculation of callus tissues of Scots pine, Corsican pine and three varieties of mountain pine with *Peridermium pini* **93(4)**, 503, 1989
Interaction
Mycelial interactions in outcrossing populations of *Hypoxylon* **93(2)**, 187, 1989
Interactions between *Psilocybe semilanceata* and fungi of its habitat **93(4)**, 554, 1989
Ips
Ascospores hyperphoretic on mites associated with *Ips typographus* **93(4)**, 513, 1989
Jongiella
Camillea, *Jongiella* and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Kentingia
Kentingia and *Setocampanula*, two new ascomycete genera **93(1)**, 83, 1989
Kentingia corticola
Kentingia and *Setocampanula*, two new ascomycete genera **93(1)**, 83, 1989
Keys
Camillea, *Jongiella* and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
The genus *Anthracophyllum* (Tricholomataceae tribe Collybieae) **93(3)**, 352, 1989
A new *Stenella* species from India **93(3)**, 398, 1989
Pure culture studies on *Tetracladium* **93(4)**, 452, 1989
Revision of *Hendersonula* **93(4)**, 466, 1989
Laccaria laccata
Stimulation of germination of spores of some ectomycorrhizal fungi by other micro-organisms **93(2)**, 182, 1989
Laccase
Effect of substrate depth on extracellular endocellulase and laccase production of *Agaricus bisporus* **93(3)**, 292, 1989
Phenol oxidase activity during development of *Coprinus cinereus* **93(4)**, 546, 1989
Larix
Conidiobolus iuxtagenitus, a new species with discharged elongate repetitional conidia and conjugation tubes **93(2)**, 223, 1989
Leaf cuticle
Interactions of *Alternaria brassicae* conidia with leaf epicuticular wax of canola **93(2)**, 240, 1989
Leprieuria
Camillea, *Jongiella* and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Leprieuria bacillum
Camillea, *Jongiella* and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Leptosphaeria nodorum
First report of the teleomorph of *Leptosphaeria nodorum* on wheat in South Africa **93(1)**, 114, 1989
Leptosphareia maculans
Effects of host, pathogen and environmental factors on latent period and production of pycnidia of *Leptosphaeria maculans* on oilseed rape leaves in controlled environments **93(2)**, 167, 1989
Leturus
Vesicular-arbuscular mycorrhizal and saprophytic fungi of the Swain Reefs, Australia **93(3)**, 375, 1989
Leucoagaricus
Notes on some Leucocoprinoid fungi from Britain **93(4)**, 413, 1989
Leucoagaricus macrorhizus
Notes on some Leucocoprinoid fungi from Britain **93(4)**, 413, 1989
Leucocoprinus
Notes on some Leucocoprinoid fungi from Britain **93(4)**, 413, 1989
Leucocoprinus caeruleoviolaceus
Notes on some Leucocoprinoid fungi from Britain **93(4)**, 413, 1989
Leucocoprinus lilacinogranulosus* var. *subglobisporus
Notes on some Leucocoprinoid fungi from Britain **93(4)**, 413, 1989
Leucocoprinus macrorhizus
Notes on some Leucocoprinoid fungi from Britain **93(4)**, 413, 1989
Light
Effect of inbreeding and light on monokaryotic and dikaryotic fruiting in the homobasidiomycete *Schizophyllum commune* **93(4)**, 535, 1989
Lignin degradation
Fungal populations on wheat straw decomposing in arable soils **93(1)**, 47, 1989
Liliaceae
Host specificity *versus* plurivority in barley leaf rusts and their microcyclic relatives **93(2)**, 175, 1989
Lithocarpus
New species and new records of ascomycetes from Taiwan **93(3)**, 340, 1989
Lolium
Behaviour of a plant growth-promoting sterile fungus on agar and roots of rye-grass and wheat **93(2)**, 161, 1989
Lycoperdon pyriforme
Water distribution, size and wall thickness in *Lycoperdon pyriforme* spores **93(1)**, 28, 1989
Magnaporthe poae
Magnaporthe poae sp. nov., a hyphopodiate fungus with a *Phialophora* anamorph from grass roots in the United States **93(1)**, 59, 1989
Malassezia
Comparison of chitin localization in *Saccharomyces cerevisiae*, *Cryptococcus neoformans*, and *Malassezia* spp. **93(4)**, 551, 1989
Marasmiellus rawakensis
The genus *Anthracophyllum* (Tricholomataceae tribe Collybieae) **93(3)**, 352, 1989
Marine fungi
Intertidal fungi from the mangrove fern, *Acrostichum speciosum*, including *Massarina acrostichi* sp. nov. **93(4)**, 435, 1989
Massarina acrostichi
Intertidal fungi from the mangrove fern, *Acrostichum speciosum*, including *Massarina acrostichi* sp. nov. **93(4)**, 435, 1989
Mathematical modelling
Effects of host, pathogen and environmental factors on latent period and production of pycnidia of *Leptosphaeria maculans* on oilseed rape leaves in controlled environments **93(2)**, 167, 1989
Melanins
Taxonomic note on the myxomycete genus *Diachea* **93(2)**, 233, 1989

Melanospora damnosa
Gonatobotrys simplex and its teleomorph, *Melanospora damnosa* **93(1)**, 67, 1989
Melanotaenium
Note on the basidium in the Tilletiaceae **93(3)**, 387, 1989
Millettia
New species and new records of ascomycetes from Taiwan **93(3)**, 340, 1989
Miscanthus
New species and new records of ascomycetes from Taiwan **93(3)**, 340, 1989
Mite association
Ascospores hyperphoretic on mites associated with *Ips typographus* **93(4)**, 513, 1989
Mitochondria
Restriction fragment length polymorphisms in mitochondrial DNAs of *Armillaria*: identification of North American biological species **93(3)**, 247, 1989
Mitochondrial DNA and evolution of heterothallic and pseudohomothallic *Neurospora* species **93(3)**, 257, 1989
Effect of inbreeding and light on monokaryotic and dikaryotic fruiting in the homobasidiomycete *Schizophyllum commune* **93(4)**, 535, 1989
Mixed inocula
Effect of *Rhizopus* and *Neurospora* spp. on growth of *Aspergillus flavus* and *A. parasiticus* and accumulation of aflatoxin B_1 in groundnut **93(4)**, 518, 1989
Morphology
Variation in morphology and pathogenicity of *Fusarium oxysporum* f. sp. *narcissi* **93(3)**, 369, 1989
Investigation of cell wall composition of different mycelial forms of *Rhizopus arrhizus* **93(4)**, 524, 1989
Mucor azygospora
Azygospore morphology in *Mucor azygospora* and *M. bainieri* **93(3)**, 314, 1989
Mucor bainieri
Azygospore morphology in *Mucor azygospora* and *M. bainieri* **93(3)**, 314, 1989
Musa
Fusarial wilt of banana in Florida **93(2)**, 242, 1989
Mutants
Mitochondrial DNA and evolution of heterothallic and pseudohomothallic *Neurospora* species **93(3)**, 257, 1989
Mycena alphitophora* var. *distincta
Two new varieties of *Mycena alphitophora* **93(1)**, 118, 1989
Mycena alphitophora* var. *globispora
Two new varieties of *Mycena alphitophora* **93(1)**, 118, 1989
Mycoparasites
Gonatobotrys simplex and its teleomorph, *Melanospora damnosa* **93(1)**, 67, 1989
Mycovellosiella cordiicola
A new species and new combination in *Mycovellosiella* from Uttar Pradesh, India **93(2)**, 230, 1989
Mycovellosiella solenae-heterophyllae
A new species and new combination in *Mycovellosiella* from Uttar Pradesh, India **93(2)**, 230, 1989
Narcissus
Resistance of narcissus to infection by *Fusarium oxysporum* f. sp. *narcissi* **93(3)**, 363, 1989
Variation in morphology and pathogenicity of *Fusarium oxysporum* f. sp. *narcissi* **93(3)**, 369, 1989
Nattrassia
Revision of *Hendersonula* **93(4)**, 466, 1989
Nattrassia mangiferae
Revision of *Hendersonula* **93(4)**, 466, 1989
Nepenthes
Yeasts associated with fluid in pitchers of *Nepenthes* **93(1)**, 96, 1989
Neurospora
Mitochondrial DNA and evolution of heterothallic and pseudohomothallic *Neurospora* species **93(3)**, 257, 1989
Effect of *Rhizopus* and *Neurospora* spp. on growth of *Aspergillus flavus* and *A. parasiticus* and accumulation of aflatoxin B_1 in groundnut **93(4)**, 518, 1989
New combinations
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
A new species and new combination in *Mycovellosiella* from Uttar Pradesh, India **93(2)**, 230, 1989
The genus *Anthracophyllum* (Tricholomataceae tribe Collybieae) **93(3)**, 352, 1989
An Australian species of *Chaetocalathus* **93(3)**, 389, 1989
Notes on some Leucocoprinoid fungi from Britain **93(4)**, 413, 1989
Revision of *Hendersonula* **93(4)**, 466, 1989
New genera
Kentingia and *Setocampanula*, two new ascomycete genera **93(1)**, 83, 1989
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Setosporella, a new genus of Hyphomycetes from Egyptian soils **93(2)**, 227, 1989
Revision of *Hendersonula* **93(4)**, 466, 1989
New names
Revision of *Hendersonula* **93(4)**, 466, 1989
New species
Gaeumannomyces incrustans sp. nov., a root-infecting hyphopodiate fungus from the United States **93(1)**, 55, 1989
Magnaporthe poae sp. nov., a hyphopodiate fungus with a *Phialophora* anamorph from grass roots in the United States **93(1)**, 59, 1989
Four species of *Anthostomella* from Australia **93(1)**, 75, 1989
Kentingia and *Setocampanula*, two new ascomycete genera **93(1)**, 83, 1989
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Conidiobolus iuxtagenitus, a new species with discharged elongate repetitional conidia and conjugation tubes **93(2)**, 223, 1989
Setosporella, a new genus of Hyphomycetes from Egyptian soils **93(2)**, 227, 1989
A new species and new combination in *Mycovellosiella* from Uttar Pradesh, India **93(2)**, 230, 1989
New species and new records of ascomycetes from Taiwan **93(3)**, 340, 1989
A new species of *Trinacrium* from Taiwan **93(3)**, 391, 1989
Pseudocercospora eucalyptorum sp. nov., on *Eucalyptus* leaves **93(3)**, 394, 1989
A new *Stenella* species from India **93(3)**, 398, 1989
Notes on some Leucocoprinoid fungi from Britain **93(4)**, 413, 1989
Three *Cortinarius* species from Western Australia **93(4)**, 424, 1989
Intertidal fungi from the mangrove fern, *Acrostichum speciosum*, including *Massarina acrostichi* sp. nov. **93(4)**, 435, 1989
Five new species of *Phyllosticta* on Australian native plants **93(4)**, 489, 1989
Asteromassaria tetraspora sp. nov., a new ascomycete from India **93(4)**, 557, 1989
New subgenera
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
New varieties
Two new varieties of *Mycena alphitophora* **93(1)**, 118, 1989
Notes on some Leucocoprinoid fungi from Britain **93(4)**, 413, 1989
Niesslia taiwanensis
New species and new records of ascomycetes from Taiwan **93(3)**, 340, 1989
Nitrogen
Nitrogen form and growth of *Gaeumannomyces graminis* var. *tritici* in soil **93(1)**, 112, 1989
Nummularia flosculosa
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Nummularia signata
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Nutrition
Cultural studies on *Colletotrichum graminicola* isolates from shattercane, sorghum and corn **93(1)**, 63, 1989
Nitrogen form and growth of *Gaeumannomyces graminis* var. *tritici* in soil **93(1)**, 112, 1989
Observations on oligotrophic growth of fungi on silica gel **93(4)**, 529, 1989
Oligotrophy
Observations on oligotrophic growth of fungi on silica gel **93(4)**, 529, 1989
Oospore germination
Ultrastructure of mature oogonium-oospore wall complexes in *Phytophthora megasperma*: a comparison of *in vivo* and *in vitro* dissolution of the spore wall **93(3)**, 321, 1989
Ophiobolus miscanthi
New species and new records of ascomycetes from Taiwan **93(3)**, 340, 1989
Ophiostoma cucullatum
Conidial development in the anamorph of *Ophiostoma cucullatum* **93(1)**, 91, 1989
Panus melanophyllus
The genus *Anthracophyllum* (Tricholomataceae tribe Collybieae) **93(3)**, 352, 1989

Parodiella millettiae
New species and new records of ascomycetes from Taiwan **93(3)**, 340, 1989
Paspalum
Infection of *Paspalum* by *Ascochyta paspali* transmitted in cow's saliva **93(4)**, 559, 1989
Paxillaceae
Quantitative differences of nuclear DNA contents in Paxillaceae compared with other families of Boletales **93(3)**, 282, 1989
Paxillus
Quantitative differences of nuclear DNA contents in Paxillaceae compared with other families of Boletales **93(3)**, 282, 1989
Paxillus involutus
Stimulation of germination of spores of some ectomycorrhizal fungi by other micro-organisms **93(2)**, 182, 1989
Peridermium pini
Inoculation of callus tissues of Scots pine, Corsican pine and three varieties of mountain pine with *Peridermium pini* **93(4)**, 503, 1989
pH
Use of gradient plates to study spore germination with several microclimatic factors varying simultaneously **93(1)**, 106, 1989
Requirement for potassium and pH shift in host-mediated sporangiospore extrusion from trichospores of *Smittium culisetae* and other *Smittium* species **93(3)**, 303, 1989
Phenol oxidase
Phenol oxidase activity during development of *Coprinus cinereus* **93(4)**, 546, 1989
Phialographium
Conidial development in the anamorph of *Ophiostoma cucullatum* **93(1)**, 91, 1989
Phialophora
Gaeumannomyces incrustans sp. nov., a root-infecting hyphopodiate fungus from the United States **93(1)**, 55, 1989
Magnaporthe poae sp. nov., a hyphopodiate fungus with a *Phialophora* anamorph from grass roots in the United States **93(1)**, 59, 1989
Phyllocladus
Five new species of *Phyllosticta* on Australian native plants **93(4)**, 489, 1989
Phylloplane fungi
Yeasts associated with fluid in pitchers of *Nepenthes* **93(1)**, 96, 1989
Phyllosticta annulicaudata
Five new species of *Phyllosticta* on Australian native plants **93(4)**, 489, 1989
Phyllosticta ashtonii
Five new species of *Phyllosticta* on Australian native plants **93(4)**, 489, 1989
Phyllosticta blackwoodiae
Five new species of *Phyllosticta* on Australian native plants **93(4)**, 489, 1989
Phyllosticta hemibrunnea
Five new species of *Phyllosticta* on Australian native plants **93(4)**, 489, 1989
Phyllosticta telopeae
Five new species of *Phyllosticta* on Australian native plants **93(4)**, 489, 1989
Phytophthora
Comparative resilience to dilution plate procedures shown by zoospore cysts of twenty *Pythium* species and five *Phytophthora* species **93(3)**, 383, 1989
Phytophthora cinnamomi
Retrievability of *Phytophthora cinnamomi* in sand plates **93(3)**, 385, 1989
Phytophthora megasperma
Ultrastructure of mature oogonium-oospore wall complexes in *Phytophthora megasperma*: a comparison of *in vivo* and *in vitro* dissolution of the spore wall **93(3)**, 321, 1989
Phytophthora palmivora
Development of a bioassay to test the effect of phosphorous acid on black pod of cocoa **93(1)**, 110, 1989
Pinus
Notes on some Leucocoprinoid fungi from Britain **93(4)**, 413, 1989
Inoculation of callus tissues of Scots pine, Corsican pine and three varieties of mountain pine with *Peridermium pini* **93(4)**, 503, 1989
Plasmids
Presidential Address: Fungi without coats – protoplasts as tools for mycological research **93(1)**, 1, 1989
Pleurotus cheelii
An Australian species of *Chaetocalathus* **93(3)**, 389, 1989
Poa
Magnaporthe poae sp. nov., a hyphopodiate fungus with a *Phialophora* anamorph from grass roots in the United States **93(1)**, 59, 1989
Population analysis
Fungal populations on wheat straw decomposing in arable soils **93(1)**, 47, 1989
Population changes
Short-term retrievability of *Pythium* propagules in simulated soil environments **93(2)**, 199, 1989
Retrievability of *Phytophthora cinnamomi* in sand plates **93(3)**, 385, 1989
Population structure
Mycelial ontogeny and interactions in non-outcrossing populations of *Hypoxylon* **93(3)**, 273, 1989
Potassium
Requirement for potassium and pH shift in host-mediated sporangiospore extrusion from trichospores of *Smittium culisetae* and other *Smittium* species **93(3)**, 303, 1989
Presidential Address
Presidential Address: Fungi without coats – protoplasts as tools for mycological research **93(1)**, 1, 1989
Protoplast fusion
Presidential Address: Fungi without coats – protoplasts as tools for mycological research **93(1)**, 1, 1989
Protoplasts
Presidential Address: Fungi without coats – protoplasts as tools for mycological research **93(1)**, 1, 1989
Pseudocercospora eucalyptorum
Pseudocercospora eucalyptorum sp. nov., on *Eucalyptus* leaves **93(3)**, 394, 1989
Psilocybe semilanceata
Interactions between *Psilocybe semilanceata* and fungi of its habitat **93(4)**, 554, 1989
Puccinia hordei
Host specificity *versus* plurivority in barley leaf rusts and their microcyclic relatives **93(2)**, 175, 1989
Pycnidial production
Effects of host, pathogen and environmental factors on latent period and production of pycnidia of *Leptosphaeria maculans* on oilseed rape leaves in controlled environments **93(2)**, 167, 1989
Pyrenophora tritici-repentis
Factors influencing survival of *Pyrenophora tritici-repentis*: stubble management **93(1)**, 38, 1989
Factors influencing survival of *Pyrenophora tritici-repentis*: water potential and temperature **93(1)**, 41, 1989
Pythium
Short-term retrievability of *Pythium* propagules in simulated soil environments **93(2)**, 199, 1989
Comparative resilience to dilution plate procedures shown by zoospore cysts of twenty *Pythium* species and five *Phytophthora* species **93(3)**, 383, 1989
Reefs
Vesicular-arbuscular mycorrhizal and saprophytic fungi of the Swain Reefs, Australia **93(3)**, 375, 1989
Resistance
Resistance of narcissus to infection by *Fusarium oxysporum* f. sp. *narcissi* **93(3)**, 363, 1989
Restriction fragment length polymorphisms
Restriction fragment length polymorphisms in mitochondrial DNAs of *Armillaria*: identification of North American biological species **93(3)**, 247, 1989
Reviews
Clifford, B.C. & Lester, E. Control of Plant Diseases: Costs and Benefits (by J.M. Waller) **93(3)**, 403, 1989
Samson, R.A. & van Reenen-Hoekstra, E.S. Introduction to Food-borne Fungi (by B.C. Sutton) **93(3)**, 403, 1989
Houghton, D.R., Smith, R.N. & Eggins, H.O.W. Biodeterioration 7 (by B.C. Sutton) **93(3)**, 403, 1989
Worthing, C.R. & Walker, S.B. Pesticide Manual 8th Edition (by J.M. Waller) **93(3)**, 403, 1989
Anon., Catalogue of the Culture Collection of CAB International Mycological Institute 9th Edition (by M.O. Moss) **93(3)**, 404, 1989
Stolp, H. Microbial Ecology: Organisms, Habitats, Activities (by J.M. Deacon) **93(3)**, 404, 1989
Holliday, P. A Dictionary of Plant Pathology (by B.C. Sutton) **93(4)**, 561, 1989
Longton, R.E. Biology of Bryophytes (by D.L. Hawksworth) **93(4)**, 561, 1989
Przbylowicz, P. & Donoghue, J. Shiitake Growers Handbook. The Art and Science of Mushroom Cultivation (by R. Watling) **93(4)**, 561, 1989
Ward, O.P. Fermentation Biotechnology (by D.R. Berry) **93(4)**, 561, 1989

Rhizoctonia solani
Morphogenesis of microsclerotia and sasakii-type sclerotia in *Rhizoctonia solani*, anastomosis group 1, intraspecific group 1A and 1B **93(4)**, 429, 1989

Rhizopus
Effect of *Rhizopus* and *Neurospora* spp. on growth of *Aspergillus flavus* and *A. parasiticus* and accumulation of aflatoxin B_1 in groundnut **93(4)**, 518, 1989

Rhizopus arrhizus
Investigation of cell wall composition of different mycelial forms of *Rhizopus arrhizus* **93(4)**, 524, 1989

Rhytismataceae
Ascospore germination and appressorium formation *in vitro* of some species of the Rhytismataceae **93(4)**, 439, 1989

RNA
Effect of inbreeding and light on monokaryotic and dikaryotic fruiting in the homobasidiomycete *Schizophyllum commune* **93(4)**, 535, 1989

Root fungi
Interactions between *Psilocybe semilanceata* and fungi of its habitat **93(4)**, 554, 1989

Saccharomyces cerevisiae
Comparison of chitin localization in *Saccharomyces cerevisiae*, *Cryptococcus neoformans*, and *Malassezia* spp. **93(4)**, 551, 1989

Salmo
Enhanced vulnerability of rainbow trout (*Salmo gairdneri*) to *Saprolegnia* infection, following treatment of the fish with an androgen **93(3)**, 379, 1989

Saprolegnia diclina
Enhanced vulnerability of rainbow trout (*Salmo gairdneri*) to *Saprolegnia* infection, following treatment of the fish with an androgen **93(3)**, 379, 1989

Saprolegnia ferax
Formation of aerial hyphae in *Saprolegnia ferax* **93(1)**, 101, 1989

Schizophyllum commune
Effect of inbreeding and light on monokaryotic and dikaryotic fruiting in the homobasidiomycete *Schizophyllum commune* **93(4)**, 535, 1989

Sclerotial formation
Morphogenesis of microsclerotia and sasakii-type sclerotia in *Rhizoctonia solani*, anastomosis group 1, intraspecific group 1A and 1B **93(4)**, 429, 1989

Scolecosporiella varians
Revision of *Hendersonula* **93(4)**, 466, 1989

Scytalidium dimidiatum
Revision of *Hendersonula* **93(4)**, 466, 1989

Seasonal fluctuations
Seasonal airspora at three sites in Kuwait 1977–1982 **93(2)**, 208, 1989

Septation
Conidiobolus osmodes isolated from *Auricularia auricula-judae* **93(3)**, 335, 1989

Septora nodorum
First report of the teleomorph of *Leptosphaeria nodorum* on wheat in South Africa **93(1)**, 114, 1989

Serotaxonomy
Use of ELISA to differentiate marine species of *Dendryphiella* **93(3)**, 400, 1989

Setocampanula
Kentingia and *Setocampanula*, two new ascomycete genera **93(1)**, 83, 1989

Setocampanula taiwanensis
Kentingia and *Setocampanula*, two new ascomycete genera **93(1)**, 83, 1989

Setosporella
Setosporella, a new genus of Hyphomycetes from Egyptian soils **93(2)**, 227, 1989

Setosporella mahmoudii
Setosporella, a new genus of Hyphomycetes from Egyptian soils **93(2)**, 227, 1989

Silica gel
Observations on oligotrophic growth of fungi on silica gel **93(4)**, 529, 1989

Smittium culisetae
Requirement for potassium and pH shift in host-mediated sporangiospore extrusion from trichospores of *Smittium culisetae* and other *Smittium* species **93(3)**, 303, 1989

Soil fungi
Nitrogen form and growth of *Gaeumannomyces graminis* var. *tritici* in soil **93(1)**, 112, 1989
Growth promotion of rotation crop species by a sterile fungus from wheat and effect of soil temperature and water potential on its suppression of take-all **93(2)**, 156, 1989
Conidiobolus iuxtagenitus, a new species with discharged elongate repetitional conidia and conjugation tubes **93(2)**, 223, 1989
Setosporella, a new genus of Hyphomycetes from Egyptian soils **93(2)**, 227, 1989
Vesicular-arbuscular mycorrhizal and saprophytic fungi of the Swain Reefs, Australia **93(3)**, 375, 1989
Observations on oligotrophic growth of fungi on silica gel **93(4)**, 529, 1989

Solena
A new species and new combination in *Mycovellosiella* from Uttar Pradesh, India **93(2)**, 230, 1989

Somatic compatibility
Heterokaryon self-incompatibility in *Gibberella fujikuroi* (*Fusarium moniliforme*) **93(1)**, 21, 1989
Fusarial wilt of banana in Florida **93(2)**, 242, 1989
Mycelial ontogeny and interactions in non-outcrossing populations of *Hypoxylon* **93(3)**, 273, 1989

Somatic incompatibility
Mycelial interactions in outcrossing populations of *Hypoxylon* **93(2)**, 187, 1989

Sorghum
Cultural studies on *Colletotrichum graminicola* isolates from shattercane, sorghum and corn **93(1)**, 63, 1989
Secondary conidiation of *Sphacelia sorghi* on sorghum, a novel factor in the epidemiology of ergot disease **93(4)**, 497, 1989

Sphacelia sorghi
Secondary conidiation of *Sphacelia sorghi* on sorghum, a novel factor in the epidemiology of ergot disease **93(4)**, 497, 1989

Sphaeria heterostoma
Camillea, *Jongiella* and light-spored species of *Hypoxylon* **93(2)**, 121, 1989

Sphaeria tinctor
Camillea, *Jongiella* and light-spored species of *Hypoxylon* **93(2)**, 121, 1989

Sphaeropsis conglobata
Revision of *Hendersonula* **93(4)**, 466, 1989

Sporangiospores
Requirement for potassium and pH shift in host-mediated sporangiospore extrusion from trichospores of *Smittium culisetae* and other *Smittium* species **93(3)**, 303, 1989

Spore germination
Stimulation of germination of spores of some ectomycorrhizal fungi by other micro-organisms **93(2)**, 182, 1989
Autoinhibition of germination and growth in *Geotrichum candidum* **93(2)**, 214, 1989
Interactions of *Alternaria brassicae* conidia with leaf epicuticular wax of canola **93(2)**, 240, 1989

Sporulation
Cultural studies on *Colletotrichum graminicola* isolates from shattercane, sorghum and corn **93(1)**, 63, 1989
Autoinhibition of germination and growth in *Geotrichum candidum* **93(2)**, 214, 1989
Esterase activity as a marker for sporulation in *Colletotrichum gloeosporioides* f. sp. *malvae* in submerged culture **93(2)**, 236, 1989

Stagonospora varians
Revision of *Hendersonula* **93(4)**, 466, 1989

Stenella
A new *Stenella* species from India **93(3)**, 398, 1989

Stenella embeliae
A new *Stenella* species from India **93(3)**, 398, 1989

Sterigmatocystin
Sterigmatocystin production by laboratory strains of *Aspergillus nidulans* **93(4)**, 548, 1989

Steroids
Enhanced vulnerability of rainbow trout (*Salmo gairdneri*) to *Saprolegnia* infection, following treatment of the fish with an androgen **93(3)**, 379, 1989

Stilbospora meridionalis
Revision of *Hendersonula* **93(4)**, 466, 1989

Stubble management
Factors influencing survival of *Pyrenophora tritici-repentis*: stubble management **93(1)**, 38, 1989

Survival
Factors influencing survival of *Pyrenophora tritici-repentis*: stubble management **93(1)**, 38, 1989
Factors influencing survival of *Pyrenophora tritici-repentis*: water potential and temperature **93(1)**, 41, 1989

Taphrophila cornu-capreoli
Two small ascomycetes on *Carex* new to Britain **93(1)**, 115, 1989

Techniques
Use of gradient plates to study spore germination with several microclimatic factors varying simultaneously **93(1)**, 106, 1989
Development of a bioassay to test the effect of phosphorous acid on black pod of cocoa **93(1)**, 110, 1989
Short-term retrievability of *Pythium* propagules in simulated soil environments **93(2)**, 199, 1989
Restriction fragment length polymorphisms in mitochondrial DNAs of *Armillaria*: identification of North American biological species **93(3)**, 247, 1989
Mitochondrial DNA and evolution of heterothallic and pseudohomothallic *Neurospora* species **93(3)**, 257, 1989
Quantitative differences of nuclear DNA contents in Paxillaceae compared with other families of Boletales **93(3)**, 282, 1989
Azygospore morphology in *Mucor azygospora* and *M. bainieri* **93(3)**, 314, 1989
Comparative resilience to dilution plate procedures shown by zoospore cysts of twenty *Pythium* species and five *Phytophthora* species **93(3)**, 383, 1989
Use of ELISA to differentiate marine species of *Dendryphiella* **93(3)**, 400, 1989
Observations on oligotrophic growth of fungi on silica gel **93(4)**, 529, 1989
Teliospore germination
Basidium development in some species of *Ustilago* **93(4)**, 405, 1989
Telopea
Five new species of *Phyllosticta* on Australian native plants **93(4)**, 489, 1989
Temperature
Factors influencing survival of *Pyrenophora tritici-repentis*: water potential and temperature **93(1)**, 41, 1989
Use of gradient plates to study spore germination with several microclimatic factors varying simultaneously **93(1)**, 106, 1989
Growth promotion of rotation crop species by a sterile fungus from wheat and effect of soil temperature and water potential on its suppression of take-all **93(2)**, 156, 1989
Tetracladium
Pure culture studies on *Tetracladium* **93(4)**, 452, 1989
Tetracladium breve
Pure culture studies on *Tetracladium* **93(4)**, 452, 1989
Tetracladium palmatum
Pure culture studies on *Tetracladium* **93(4)**, 452, 1989
Tetrameles
Asteromassaria tetraspora sp. nov., a new ascomycete from India **93(4)**, 557, 1989
Thamnomyces bacillum
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Theobroma
Development of a bioassay to test the effect of phosphorous acid on black pod of cocoa **93(1)**, 110, 1989
Thuarea
Vesicular-arbuscular mycorrhizal and saprophytic fungi of the Swain Reefs, Australia **93(3)**, 375, 1989
Tilletia
Note on the basidium in the Tilletiaceae **93(3)**, 387, 1989
Tissue culture
Inoculation of callus tissues of Scots pine, Corsican pine and three varieties of mountain pine with *Peridermium pini* **93(4)**, 503, 1989
Torula dimidiata
Revision of *Hendersonula* **93(4)**, 466, 1989
Toxicity
Uptake of copper by *Candida utilis* **93(1)**, 33, 1989
Toxosporiopsis macrosperma
Revision of *Hendersonula* **93(4)**, 466, 1989
Transformation
Presidential Address: Fungi without coats – protoplasts as tools for mycological research **93(1)**, 1, 1989
Transmission
Infection of *Paspalum* by *Ascochyta paspali* transmitted in cow's saliva **93(4)**, 559, 1989
Trichonectria hyalocristata
Two small ascomycetes on *Carex* new to Britain **93(1)**, 115, 1989
Trichosphaeria ferenotabilis
New species and new records of ascomycetes from Taiwan **93(3)**, 340, 1989
Trichospores
Requirement for potassium and pH shift in host-mediated sporangiospore extrusion from trichospores of *Smittium culisetae* and other *Smittium* species **93(3)**, 303, 1989
Trifolium
Vesicular-arbuscular mycorrhizal and saprophytic fungi of the Swain Reefs, Australia **93(3)**, 375, 1989
Trinacrium robustum
A new species of *Trinacrium* from Taiwan **93(3)**, 391, 1989
Tristania
Five new species of *Phyllosticta* on Australian native plants **93(4)**, 489, 1989
Triticum
Factors influencing survival of *Pyrenophora tritici-repentis*: stubble management **93(1)**, 38, 1989
Factors influencing survival of *Pyrenophora tritici-repentis*: water potential and temperature **93(1)**, 41, 1989
Fungal populations on wheat straw decomposing in arable soils **93(1)**, 47, 1989
Gaeumannomyces incrustans sp. nov., a root-infecting hyphopodiate fungus from the United States **93(1)**, 55, 1989
Magnaporthe poae sp. nov., a hyphopodiate fungus with a *Phialophora* anamorph from grass roots in the United States **93(1)**, 59, 1989
First report of the teleomorph of *Leptosphaeria nodorum* on wheat in South Africa **93(1)**, 114, 1989
Growth promotion of rotation crop species by a sterile fungus from wheat and effect of soil temperature and water potential on its suppression of take-all **93(2)**, 156, 1989
Behaviour of a plant growth-promoting sterile fungus on agar and roots of rye-grass and wheat **93(2)**, 161, 1989
Typhula
Fungal populations on wheat straw decomposing in arable soils **93(1)**, 47, 1989
Ultrastructure
Water distribution, size and wall thickness in *Lycoperdon pyriforme* spores **93(1)**, 28, 1989
Conidial development in the anamorph of *Ophiostoma cucullatum* **93(1)**, 91, 1989
Camillea, Jongiella and light-spored species of *Hypoxylon* **93(2)**, 121, 1989
Setosporella, a new genus of Hyphomycetes from Egyptian soils **93(2)**, 227, 1989
Azygospore morphology in *Mucor azygospora* and *M. bainieri* **93(3)**, 314, 1989
Ultrastructure of mature oogonium-oospore wall complexes in *Phytophthora megasperma*: a comparison of *in vivo* and *in vitro* dissolution of the spore wall **93(3)**, 321, 1989
The genus *Anthracophyllum* (Tricholomataceae tribe Collybieae) **93(3)**, 352, 1989
Variation in morphology and pathogenicity of *Fusarium oxysporum* f. sp. *narcissi* **93(3)**, 369, 1989
Morphogenesis of microsclerotia and sasakii-type sclerotia in *Rhizoctonia solani*, anastomosis group 1, intraspecific group 1A and 1B **93(4)**, 429, 1989
Comparison of chitin localization in *Saccharomyces cerevisiae, Cryptococcus neoformans*, and *Malassezia* spp. **93(4)**, 551, 1989
Urocystis
Note on the basidium in the Tilletiaceae **93(3)**, 387, 1989
Uromyces
Host specificity *versus* plurivority in barley leaf rusts and their microcyclic relatives **93(2)**, 175, 1989
Ustilago
Basidium development in some species of *Ustilago* **93(4)**, 405, 1989
Vector
Infection of *Paspalum* by *Ascochyta paspali* transmitted in cow's saliva **93(4)**, 559, 1989
Vesicular-arbuscular mycorrhizas
Vesicular-arbuscular mycorrhizal and saprophytic fungi of the Swain Reefs, Australia **93(3)**, 375, 1989
Virulence
Variation in morphology and pathogenicity of *Fusarium oxysporum* f. sp. *narcissi* **93(3)**, 369, 1989
Viruses
Presidential Address: Fungi without coats – protoplasts as tools for mycological research **93(1)**, 1, 1989
Wall structure
Ultrastructure of mature oogonium-oospore wall complexes in *Phytophthora megasperma*: a comparison of *in vivo* and *in vitro* dissolution of the spore wall **93(3)**, 321, 1989
Water
Growth promotion of rotation crop species by a sterile fungus from wheat and effect of soil temperature and water potential on its suppression of take-all **93(2)**, 156, 1989

Water availability
Vapour as the source of water in Buller's drop **93(3)**, 297, 1989
Water content
Water distribution, size and wall thickness in *Lycoperdon pyriforme* spores **93(1)**, 28, 1989
Water potential
Factors influencing survival of *Pyrenophora tritici-repentis*: water potential and temperature **93(1)**, 41, 1989
Use of gradient plates to study spore germination with several microclimatic factors varying simultaneously **93(1)**, 106, 1989
Wilt
Fusarial wilt of banana in Florida **93(2)**, 242, 1989
Xanthorrhoea
Four species of *Anthostomella* from Australia **93(1)**, 75, 1989
Yeasts
Yeasts associated with fluid in pitchers of *Nepenthes* **93(1)**, 96, 1989
Yushania
Kentingia and *Setocampanula*, two new ascomycete genera **93(1)**, 83, 1989
Zea
Cultural studies on *Colletotrichum graminicola* isolates from shattercane, sorghum and corn **93(1)**, 63, 1989
Gonatobotrys simplex and its teleomorph, *Melanospora damnosa* **93(1)**, 67, 1989
Zoospore cysts
Comparative resilience to dilution plate procedures shown by zoospore cysts of twenty *Pythium* species and five *Phytophthora* species **93(3)**, 383, 1989
Zoospore retention
Enhanced vulnerability of rainbow trout (*Salmo gairdneri*) to *Saprolegnia* infection, following treatment of the fish with an androgen **93(3)**, 379, 1989